

LFA-3 signal sequence

1 ATG GTT GCT GGG AGC GAC GCG GGG CGG GCC CTG GGG GTC CTC AGC GTG GTC TGC
 1 Met Val Ala Gly Ser Asp Ala Gly Arg Ala Leu Gly Val Leu Ser Val Val Cys
 55 CTG CTG CAC TGC TTT GGT TTC ATC AGC TGT
 19 Leu Leu His Cys Phe Gly Phe Ile Ser Cys

LFA-3

85 TTT TCC CAA CAA ATA TAT GGT GTT GTG TAT GGG AAT GTA ACT TTC CAT GTA CCA
 29 Phe Ser Gin Gin Ile Tyr Gly Val Val Tyr Gly Asn Val Thr Phe His Val Pro
 139 AGC AAT GTG CCT TTA AAA GAG GTC CTA TGG AAA AAA CAA AAG GAT AAA GTT GCA
 47 Ser Asn Val Pro Leu Lys Glu Val Leu Trp Lys Lys Gin Lys Asp Lys Val Ala
 193 GAA CTG GAA AAT TCT GAA TTC AGA GCT TTC TCA TCT TTT AAA AAT AGG GTT TAT
 65 Glu Leu Glu Asn Ser Glu Phe Arg Ala Phe Ser Ser Phe Lys Asn Arg Val Tyr
 247 TTA GAC ACT GTG TCA GGT AGC CTC ACT ATC TAC AAC TTA ACA TCA TCA GAT GAA
 83 Leu Asp Thr Val Ser Gly Ser Leu Thr Ile Tyr Asn Leu Thr Ser Ser Asp Glu
 301 GAT GAG TAT GAA ATG GAA TCG CCA AAT ATT ACT GAT ACC ATG AAG TTC TTT CTT
 101 Asp Glu Tyr Glu Met Glu Ser Pro Asn Ile Thr Asp Thr Met Lys Phe Phe Leu
 355 TAT GTC
 129 Tyr Val

IgG1 (hinge, CH2, CH3)

361 GAC AAA ACT CAC ACA TGC CCA CCG TGC CCA GCA CCT GAA CTC CTG GGG GGA CCG
 121 Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro
 415 TCA GTC TTC CTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC
 139 Ser Val Phe Leu Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 469 CCT GAG GTC ACA TGC GTG GTG GAC GTG AGC CAC GAA GAC CCT GAG GTC AAG
 157 Pro Glu Val Thr Cys Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys
 523 TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG CAT AAT GCC AAG ACA AAG CCG CGG
 275 Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
 577 GAG GAG CAG TAC AAC ACG TAC CGT GTG GTC AGC GTC CTC ACC GTC CTG CAC
 293 Glu Glu Gin Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
 631 CAG GAC TGG CTG AAT GGC AAG GAG TAC AAG TGC AAG GTC TCC AAC AAA GCC CTC
 211 Glu Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 685 CCA GCC CCC ATC GAG AAA ACC ATC TCC AAA GCC AAA GGG CAG CCC CGA GAA CCA
 229 Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Glu Pro Arg Glu Pro
 739 CAG GTG TAC ACC CTG CCC CCA TCC CGG GAT GAG CTG ACC AAG AAC CAG GTC AGC
 247 Glu Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Glu Val Ser
 793 CTG ACC TGC CTG GTC AAA GGC TTC TAT CCC AGC GAC ATC GCC GTG GAG TGG GAG
 265 Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
 847 AGC AAT GGG CAG CCG GAG AAC AAC TAC AAG ACC ACG CCT CCC GTG TTG GAC TCC
 283 Ser Asn Gly Gin Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
 901 GAC GGC TCC TTC CTC TAC AGC AAG CTC ACC GTG GAC AAG AGC AGG TGG CAG
 301 Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Glu
 955 CAG GGG AAC GTC TTC TCA TGC TCC GTG ATG CAT GAG GCT CTG CAC AAC CAC TAC
 319 Glu Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
 1009 ACG CAG AAG AGC CTC TCC CTG TCT CCG GGT AAA TGA
 337 Thr Gin Lys Ser Leu Ser Leu Ser Pro Gly Lys ***

FIG 1A

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LFA-3 signal sequence

1 ATG GTT GCT GGG AGC GAC GCG GGG CGG GCC CTG GGG GTC CTC AGC GTG GTC TGC
 1 Met Val Ala Gly Ser Asp Ala Gly Arg Ala Leu Gly Val Leu Ser Val Val Cys
 55 CTG CTG CAC TGC TTT GGT TTC ATC AGC TGT
 199 Leu Leu His Cys Phe Gly Phe Ile Ser Cys

LFA-3

85 TTT TCC CAA CAA ATA TAT GGT GTT GTG TAT GGG AAT GTA ACT TTC CAT GTA CCA
 299 Phe Ser Gln Gln Ile Tyr Gly Val Val Tyr Gly Asn Val Thr Phe His Val Pro
 139 AGC AAT GTG CCT TTA AAA GAG GTC CTA TGG AAA AAA CAA AAG GAT AAA GTT GCA
 479 Ser Asn Val Pro Leu Lys Glu Val Leu Trp Lys Lys Gln Lys Asp Lys Val Ala
 193 GAA CTG GAA AAT TCT GAA TTC AGA GCT TTC TCA TCT TTT AAA AAT AGG GTT TAT
 659 Glu Leu Glu Asn Ser Glu Phe Arg Ala Phe Ser Ser Phe Lys Asn Arg Val Tyr
 247 TTA GAC ACT GTG TCA GGT AGC CTC ACT ATC TAC AAC TTA ACA TCA TCA GAT GAA
 839 Leu Asp Thr Val Ser Gly Ser Leu Thr Ile Tyr Asn Leu Thr Ser Ser Asp Glu
 301 GAT GAG TAT GAA ATG GAA TCG CCA AAT ATT ACT GAT ACC ATG AAG TTC TTT CTT
 1019 Asp Glu Tyr Glu Met Glu Ser Pro Asn Ile Thr Asp Thr Met Lys Phe Phe Leu
 355 TAT GTC
 1199 Tyr Val

IgG1 (hinge, CH2, CH3)

361 GAC AAA ACT CAC ACA TGC CCA CCG TGC CCA GCA CCT GAA CTC CTG GGG GGA CCG
 1219 Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro
 415 TCA GTC TTC CTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC
 1399 Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr
 469 CCT GAG GTC ACA TGC GTG GTG GTG GAC GTG AGC CAC GAA GAC CCT GAG GTC AAG
 1579 Pro Glu Val Thr Cys Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys
 523 TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG CAT AAT GCC AAG ACA AAG CCG CGG
 1759 Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
 577 GAG GAG CAG TAC AAC AGC ACG TAC CGT GTG GTC AGC GTC CTC ACC GTC CTG CAC
 1939 Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His
 631 CAG GAC TGG CTG AAT GGC AAG GAG TAC AAG TGC AAG GTC TCC AAC AAA GCC CTC
 2119 Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu
 685 CCA GCC CCC ATC GAG -AAA- ACC ATC TCC AAA GCC AAA GGG CAG CCC CGA GAA CCA
 2299 Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro
 739 CAG GTG TAC ACC CTG CCC CCA TCC CGG GAT GAG CTG ACC AAG AAC CAG GTC AGC
 2479 Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val Ser
 793 CTG ACC TGC CTG GTC AAA GGC TTC TAT CCC AGC GAC ATC GCC GTG GAG TGG GAG
 2659 Leu Thr Cys Leu Val Lys Glu Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu
 847 AGC AAT GGG CAG CCG GAG AAC AAC TAC AAG ACC ACG CCT CCC GTG TTG GAC TCC
 2839 Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser
 901 GAC GGC TCC TTC CTC TAC AGC AAG CTC ACC GTG GAC AAG AGC AGG TGG CAG
 3019 Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln
 955 CAG GGG AAC GTC TTC TCA TGC TCC GTG ATG CAT GAG GCT CTG CAC AAC CAC TAC
 3199 Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr

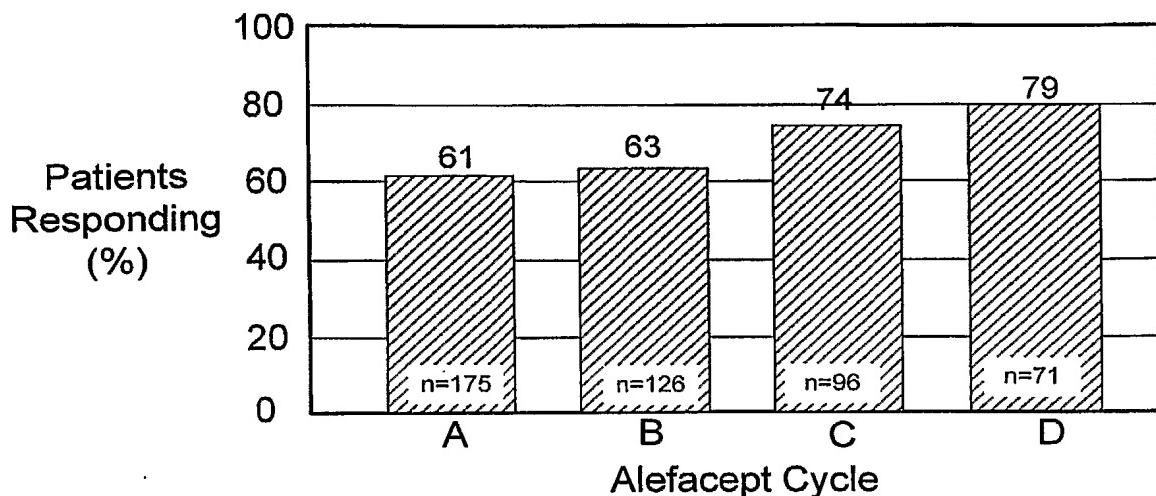
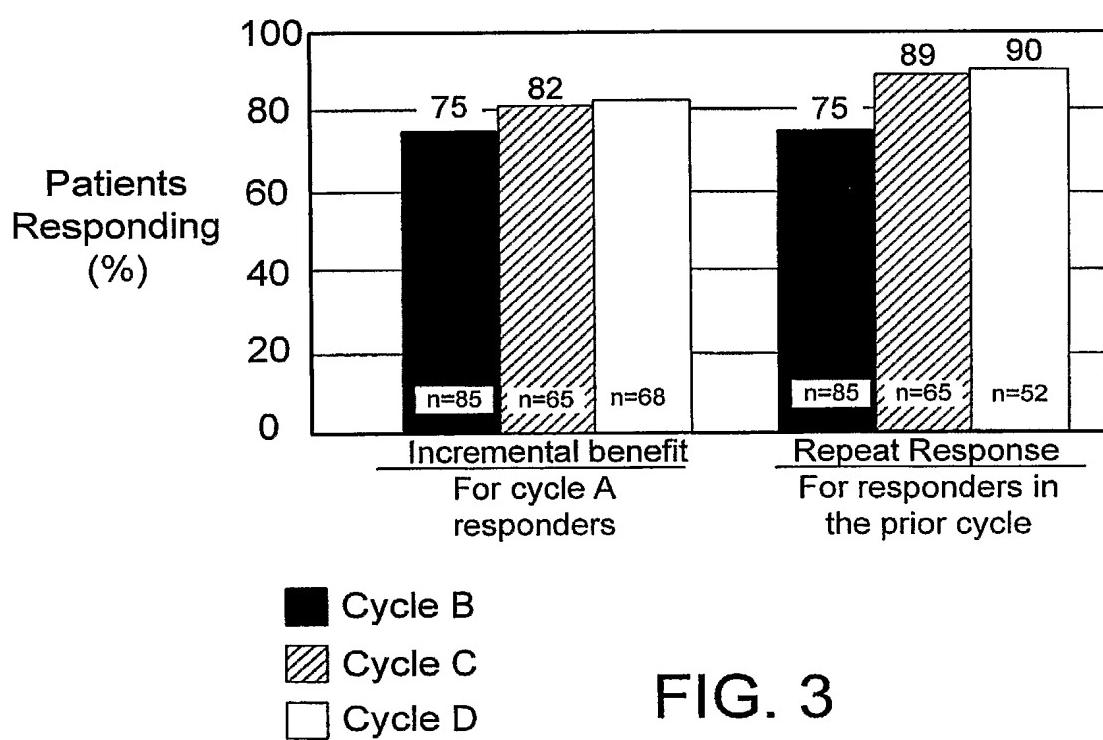
*

1009 ACG CAG AAG AGC CTC TCC CTG TCT CCG GAT TCC AAC CTA TGG AAC TGA
 3379 Thr Gln Lys Ser Leu Ser Leu Ser Pro Asp Ser Asn Leu Trp Asn ***

FIG. 1B

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**FIG. 2****FIG. 3**

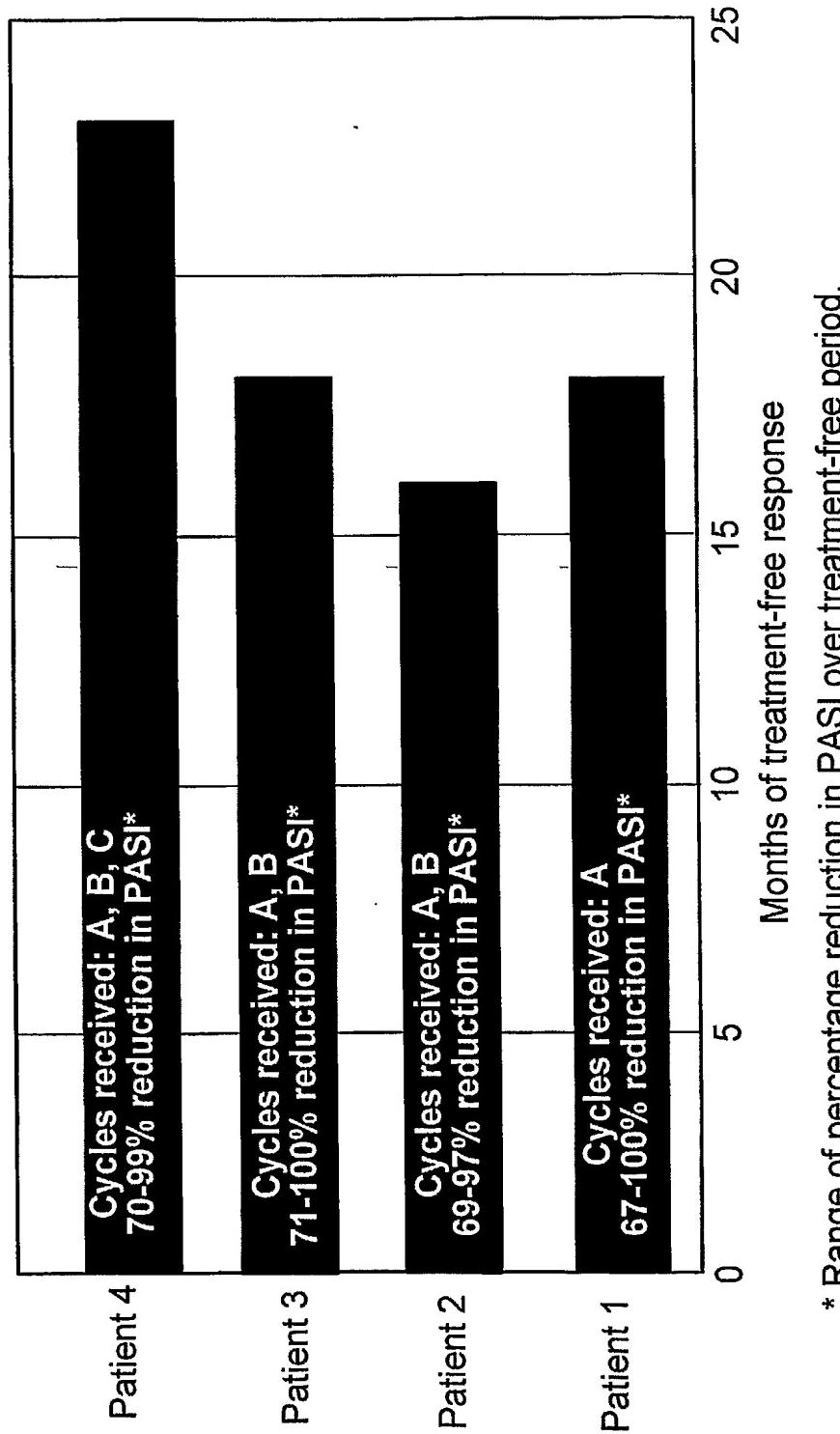


FIG. 4

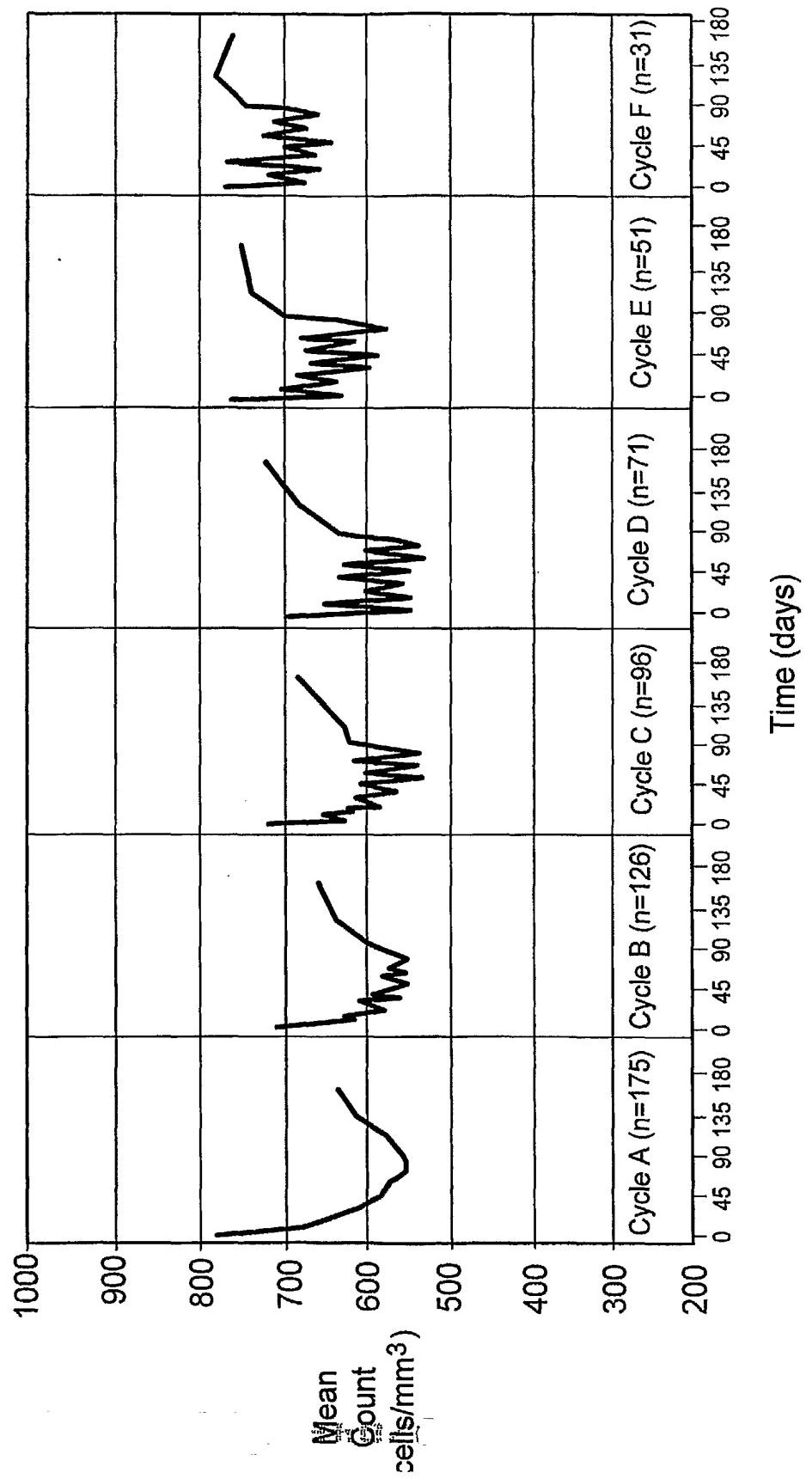
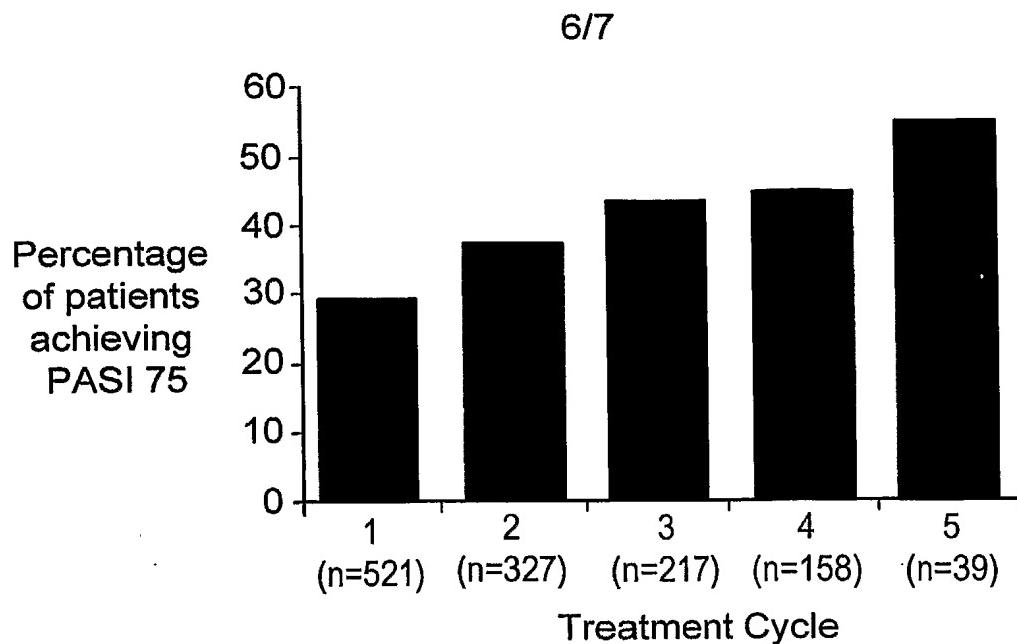
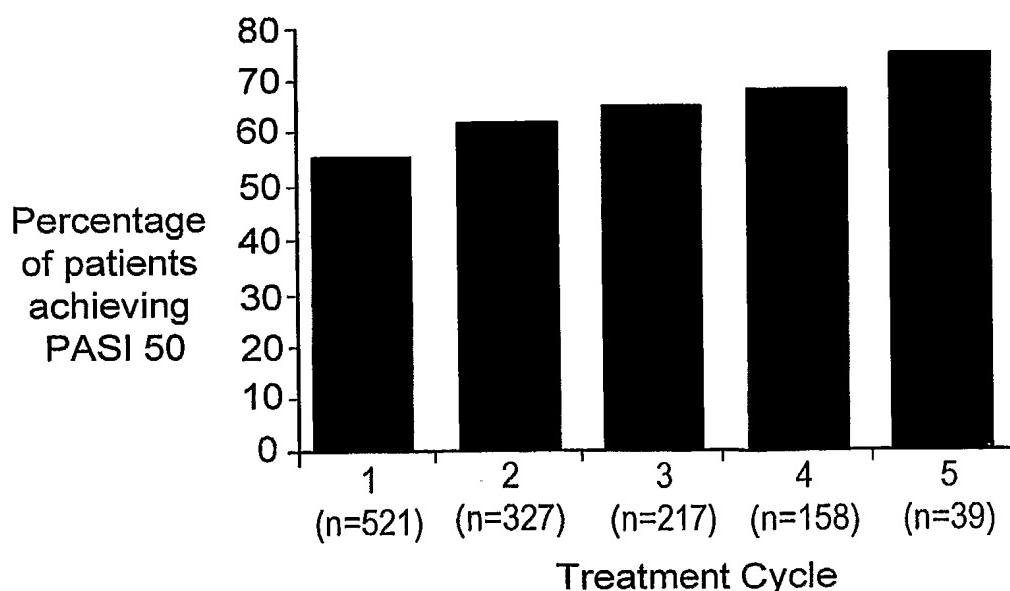
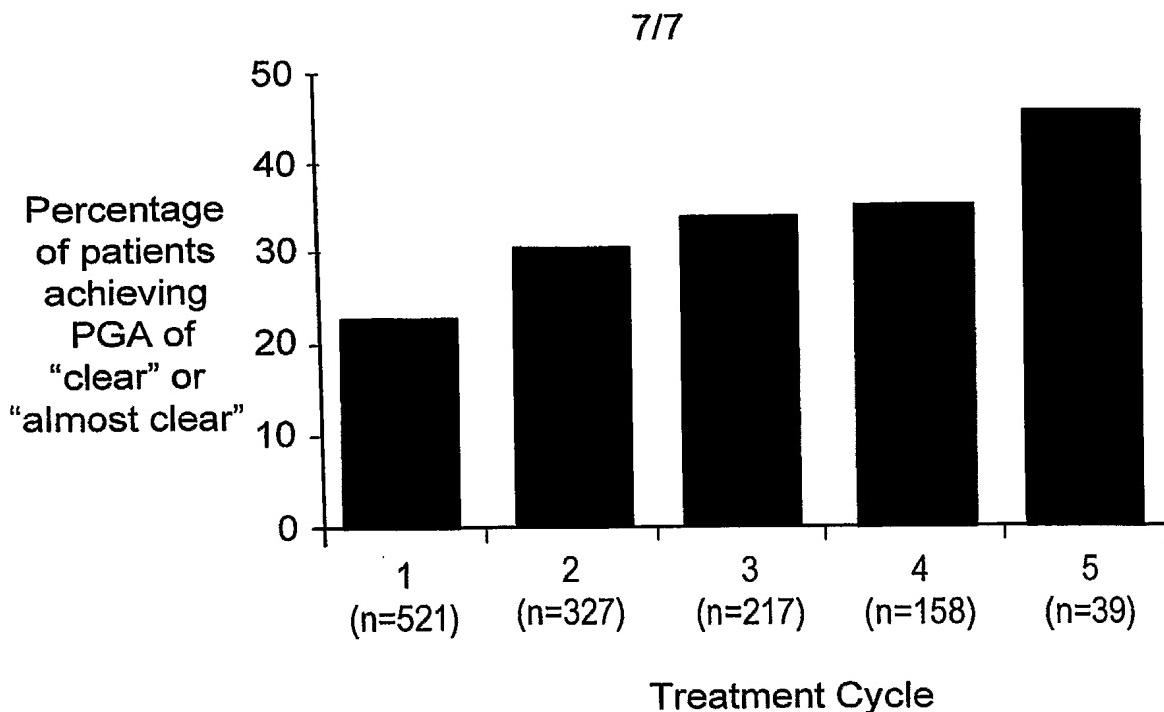
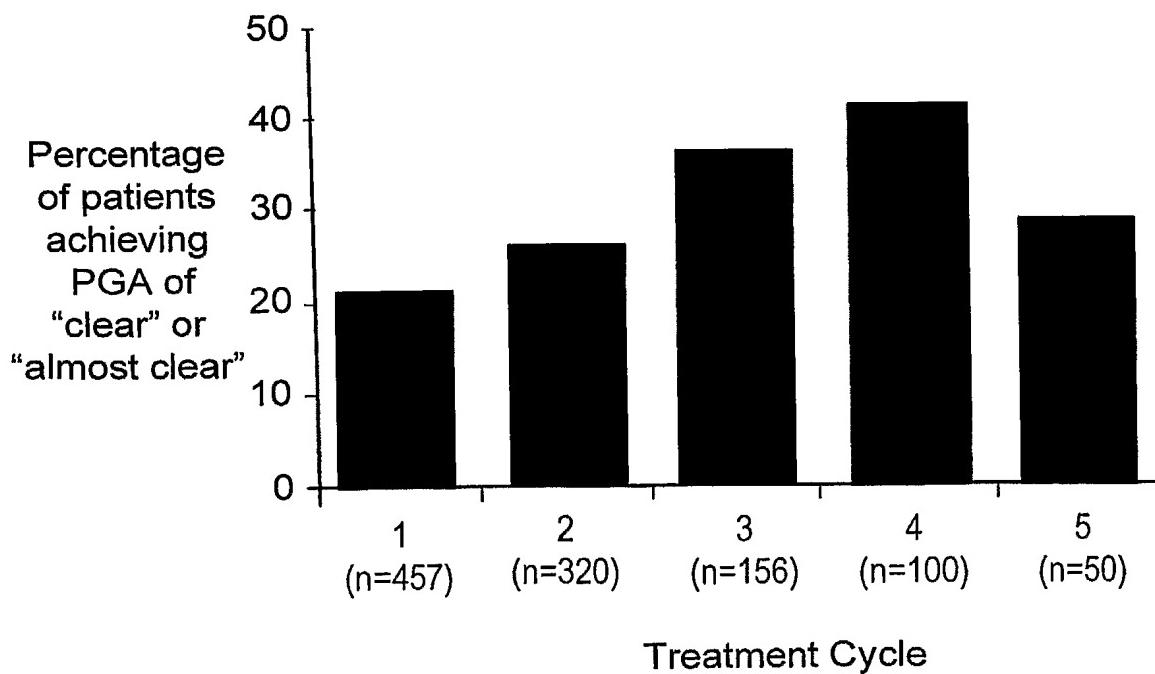


FIG. 5

**FIG. 6A****FIG. 6B**

**FIG. 7A****FIG. 7B**